

Wireless digital PIR detector User Manual

1. Introduction

MC-535R is a PIR intruder detector for indoor use. It adopts precision cylindrical FRESNEL lens, can effectively improve energy saving, with high sensitivity and free of false alarm. By using advanced patented software, it can identify the real intruder and other interference factor which may result in false alarm. Pulse counting can be adjustable. It is widely use in various indoor applications, Built-in big capacity lithium battery, power-save mode. Its working life is up to 2 years or above.

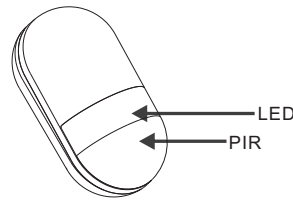


Fig.1 Appearance

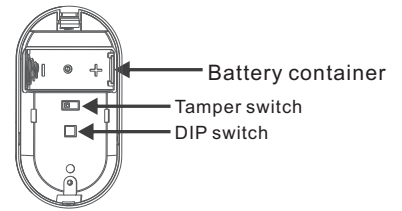


Fig.2 Internal Structure

2. Specifications

Model: MC-535R

Maximum detection distance: 12m/25°C

Emitting distance: 120m (in the open area)

Infrared distance: 12m

Working voltage: DC3V, 1*CR123A lithium battery

Alarm current: <20mA

Quiescent Current: 16µA~17µA

Infrared section (as shown at right)

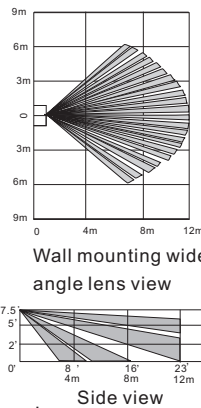
Optical lens data sheet

Infrared area: 12 × 4 (typical)

Maximum coverage: 12m * 12m (39 * 39 feet) / 90°

Emitting distance : 433MHz

Alarm indication: The LED indicator is on for 2~3 seconds.



Installation:

- ① wide-angle: 12M * 12M detection angle of 110 degrees
- ② flat curtain: 12M * 2M detection angle of 3 degrees
- ③ ceiling curtain: 6M * 1M detection angle of 3 degrees
- ④ Installation height: 2~2.3M

Operation condition:

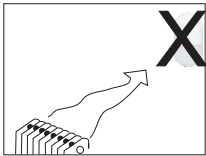
Operation temperature: -10°C~60°C < 95%RH

Storage temperature: 20°C ~60°C (4°F ~140°F)

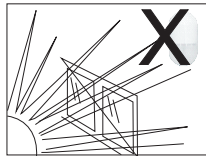
Size: 86(L)*45(W)*36(H)mm

3. Installation

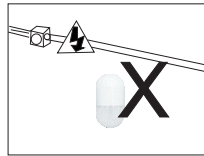
3.1 Notes



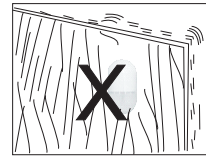
Don't face cold or heat directly



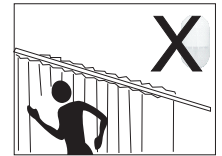
Don't face the sun-shine directly



Don't install near electric cables



Don't install on a unstable base



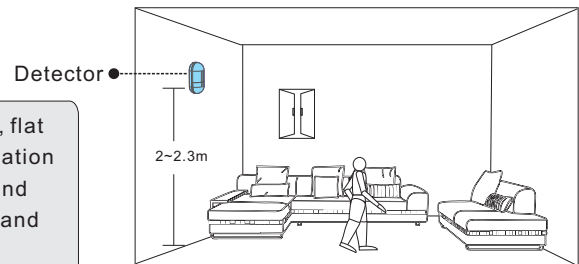
Don't face metal wall

3.2 Installation location

Use double-sided adhesive to install the detector 2 to 2.3 meters from the ground, pay attention to the installation of PIR down.

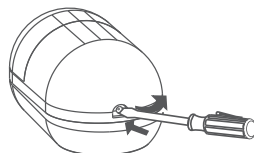


Installation can choose to install wide-angle, flat curtain, ceiling curtain three ways, different installation methods corresponding to the installation height and detection angle is different (see "2, specifications and technical parameters").

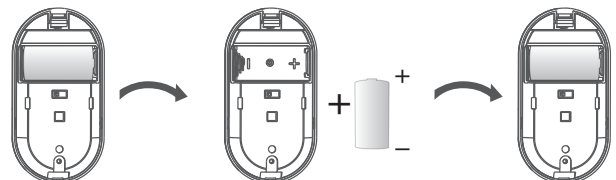


3.3 Change battery:

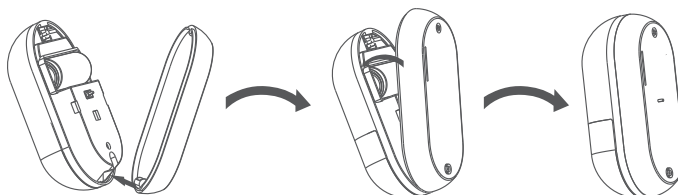
A, with a word screwdriver light top groove, pull out the bottom cover, remove the bottom cover.



B, remove the old battery, according to the marked polarity of the battery correctly into the battery.

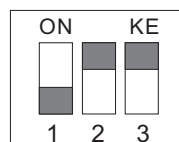


C, the side of the shell with a battery up one end, the bottom cover with a button at one end down the face of the shell to close and pull the bottom cover into the face shell.



4. DIP switch function description

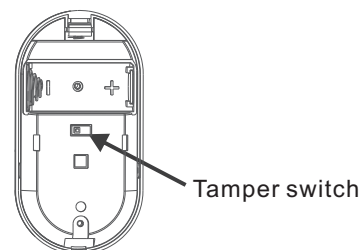
Switch serial number	OFF	ON
1	High sensitivity (default)	Low sensitivity
2	Alarm delay 5 second	Alarm delay 5 minutes (default)
3	LED is off	LED is on (default)



5. Coding method between detector and panel:

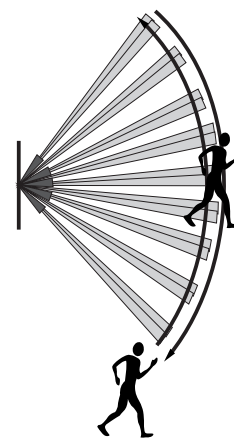
Coding setting:

- ① Set the detector as normal mode, place the battery and LED will flash seconds, set the panel as coding mode (panel coding setting pls refer to panel manual), within 3 seconds when press the confirm key of the panel Wave hand near the front side of detector, it will send a alarm signal to the panel, if the panel sounds a response then code successfully.
- ② Enter the address number to code with panel, set the panel as manual coding mode and enter the 9-digit address number, this method is much better.



6. Walking test in coverage area :

- ① Set the detector as test mode to proceed walk-test.
- ② Walk across the far edge of coverage area at the speed of 1 step/second (about 0.75m/s). The LED will flash for seconds then alarm (see the right figure).
- ③ Do walk-test in opposite direction to confirm the boundary of both sides. Make sure the detection centre pointing to the centre of protected area.
- ④ Make sure the detection centre at the proper place, should properly adjust the detection area if you can not get an ideal detection area.
- ⑤ After adjust the detection angle, should re-do walk test as above.
- ⑥ After passing the test, be sure to set the alarm delay to 5 minutes mode, otherwise it will affect the battery life.



7. Customer Service

For any help please contact with our company and you could visit our website for more information

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help .

Ⓐ This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.